

PRIORITY
OUT50997

T O P S E C R E T 171825Z

1963 APR 17 18 37Z

25X1
17 APR 1963

HFS
CS
-ACL *act*

CFC *Ch*
FILE

REF: MISSION 9053

1. DETAILED ANALYSIS OF STELLAR IMAGERY HAS RESULTED IN ABANDONING ANY ATTEMPT TO DETERMINE ATTITUDE FROM STARS FOR THIS MISSION.

2. IN LIEU OF STELLAR PERFORMANCE TO DATE THERE CAN BE NO REPEAT NO RELIANCE UPON STELLAR IMAGERY FOR ATTITUDE DETERMINATION. THIS CREATES SERIOUS PROBLEM IN L PROGRAM WITH UNPROVEN IRS READ-OUT AND ATTENDENT DATA BLOCK LIGHT FAILURE POSSIBILITY AS ONLY MEANS TO DETERMINE ATTITUDE.

3. WITHOUT IMMEDIATE ACTION TO PERFECT THE STELLAR CAMERA PERFORMANCE TO PROVIDE IMAGERY SUITABLE FOR ATTITUDE DETERMINATION (PITCH ROLL AND YAW) THERE CAN BE LITTLE HOPE OF EXPLOITING THE FULL METRIC CAPABILITIES OF THE L SYSTEM OR EVALUATING SYSTEM PERFORMANCE.

4. SUCH FACTORS AS AVAILABLE STAR FIELD, EXPOSURE, VIGNETTING, BAFFLEING, ETC. SHOULD BE CONSIDERED.

T O P S E C R E T

CFN 0672 9053 NO RELIANCE L IRS L

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Declassification Review by NGA/DoD

25X1

TOP SECRET

